

PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO				<b>Complete If Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	09/935,116
				Filing Date	8/22/01
				First Named Inventor	Dowling
				Art Unit	2155
				Examiner Name	Barot, Bharat
Sheet	1	of	3	Attorney Docket Number	EMD-NWP.001A

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		5,798,728	08-1998	Rondeau et al.	
		6,236,652	05-2001	Preston et al.	
		6,470,447	10-2002	Lambert et al.	
		6,843,684	11-2003	Malkin et al.	
		6,029,141	02-2000	Bezos et al.	
		6,864,764	01-1999	Thro et al.	
		6,115,754	09-2000	Landgren, Patricia A.	
		6,154,212	11-2000	Erick et al.	
		6,230,012	05-2001	Willkie et al.	
		6,327,533	12-2001	Chou et al.	
		6,549,626	04-2003	Rautila et al.	
		6,563,919	05-2003	Aravamudan et al.	
		6,029,141	02-22-00	Bezos et al.	
		6,185,204	02-2001	Voit, Eric A.	
		6,005,926	12-1999	Mashinsky, Alexander	
		6,411,679	06-2002	Khasnabish, Bhump	
		6,205,211	03-2001	Thomas et al.	
		6,693,886	02-2004	Haikonen et al.	
		6,515,997	02-2003	Feltner et al.	
		5,790,642	08-1998	Taylor et al.	
		5,754,786	05-1998	Diaz et al.	
		5,081,707	01-14-1992	Schorman et al.	
		5,689,825	11-18-1997	Averbuch et al.	
		5,887,254	03-23-1999	Halonon	
		6,052,600	04-18-2000	Fette et al.	
		6,175,589	01-16-2001	Cummings, Mark	
		6,185,205	02-06-2001	Shanitt et al.	
		6,243,572	01-05-2001	Chow et al.	
		6,470,179	10-22-2002	Chow et al.	
		6,548,261	04-08-2003	Cummings, Mark	
		6,594,488	07-15-2003	Chow et al.	
		6,724,833	04-20-2004	Cummings, Mark	
		6,778,832	08-17-2004	Chow et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/08a (08-03)  
 Approved for use through 07/31/2006. OMB 0851-0031  
 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE  
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1448A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				Application Number	09/935,118
				Filing Date	8/22/01
				First Named Inventor	Dowling
				Art Unit	2155
				Examiner Name	Barot, Bharat
Sheet	2	EMD-NWP.001A	3	Attorney Docket Number	EMD-NWP.001A

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6,714,538	03-30-2004	Dowling	
		6,574,239	06-03-2003	Dowling et al	
		6,522,875	02-18-2003	Dowling et al	
		6,546,425	04-04-2003	Hanson et al	
		6,466,603	09-24-2002	Ismailov et al	
		6,584,321	06-24-2003	Coan et al	
		5,572,528	11-05-1998	Shuen et al	
		5,745,695	04-28-1999	Gilchrist et al	
		6,201,962	03-13-2001	Stumolo	
		6,269,402	07-31-2001	Lin et al	
		5,771,353	06-03-1998	Eggleston et al	
		6,101,531	08-08-2000	Eggleston et al	
		6,308,281	10-23-2001	Hall et al	
		6,680,923	01-20-2004	Leon et al	
		6,081,585	05-09-2000	Innes et al	
		6,650,899	11-18-2003	Stumpert	
		6,804,720	10-12-2004	Vilander et al	
		6,654,615	11-25-2003	Chow et al	
		6,452,910	9-17-2002	Vikram et al	
		5,949,776	09-07-1999	Mahany et al	
		6,826,405	11-30-2004	Dovalk et al	
		6,704,303	05-09-2004	Bowman-Amulah	
		6,687,243	02-03-2004	Sayers et al	
		6,654,359	11-25-2003	La Porta et al	
		6,600,734	7-29-2003	Garnert et al	
		6,535,493	03-18-2003	Lee et al	
		6,487,406	11-26-2002	Chang et al	
		6,154,461	11-28-2000	Stumolo et al	
		5,987,062	11-16-1999	Engwer et al	
		5,862,339	01-19-1999	Bonnaure et al	
		6,571,290	05-27-2003	Selgas	
		5,570,417	10-29-1996	Byers	
		6,515,985	02-02-2003	Oren	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.87 and 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08b (08-03)

Approved for use through 06/30/2006. OMB 0651-0031  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	09/935,116
				Filing Date	8/22/01
				First Named Inventor	Dowling
				Art Unit	2155
				Examiner Name	Barot, Bharat
Sheet	3	EMD-NWP.001A	3	Attorney Docket Number	EMD-NWP.001A

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"JAIN: A new approach to services in communication networks," by John de Keijzer, et al., IEEE Communications Magazine, Vol. 38, No. 1, January 2000.	
		"JAIN protocol API's," by Bhat et al., IEEE Communications Magazine, Vol. 38, No. 1, January 2000.	
		"Java call control, coordination and transactions," by R. Jain et al., IEEE Communications Magazine, Vol. 38, No. 1, January 2000.	
		"Enabling network management using Java technologies," by Jae-oh Lee, IEEE Communications Magazine, Vol. 38, No. 1, January 2000.	
		"Fast and scalable handoffs for wireless internetworks," Proc. 2 <sup>nd</sup> ACM annual international conference on mobile computing and networking, November 1996.	
		"Enabling components for multistandard software radio base stations," wireless personal communications, vol 13, pages 145-166, 2000.	
		"Comments of the national telecommunications and information administration," <a href="http://www.ntia.doc.gov/nrlahome/fccfilings/2000/sdmnc61600.htm">http://www.ntia.doc.gov/nrlahome/fccfilings/2000/sdmnc61600.htm</a>	
		"JTRS - An open distributed-object computing software radio architecture, gateway to the new millenium," 18 <sup>th</sup> Digital Avionics systems conference, October 1999.	
		"Mobility Management in Next Generation Wireless Systems," Akyildiz et al., Proceedings of the IEEE, Vol. 87, No. 8, pp. 1347-1384, August, 1999.	
		"Beyond Software Radio, towards re-configurability across the whole System and across networks," Jorge M. Pereira, IEEE Vehicular Technology Conference 1999.	
		"Mode switching and software download for software defined radio: the SDR forum approach," Cummings et al., IEEE Communications Magazine, August 1999.	
		"Advanced Wireless Terminals," Lettieri et al., IEEE Personal Communications, February 1999.	

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.